GSA		PRO	OJECT CO	OST SUMN	MARY		Area (GSF) =	1
		PROJECT TITI	John A Volpe	National Trans	saportation S	Systems Center	PROJECT TYPE:	
		LOCATION: CITY, STATE	Cambridge, M	íA			New Construction	•
		CIII, SIMIL					NUMBER OF	Single Phased
							PHASES:	
				RESPONSIBI	LE PARTY		PROGRAM AREA:	Federal Building
ESTIMA	TE PREPARED BY:			Oth	er			
ESTIMA	TE REVIEWED BY:			GSA Co	st Mgt		CURRENT SUBMITTAL:	Other
	Y ASSURANCE EVIEW:							
IV.	EVIEW:							
WBS CODE		UNIFORMAT	SYSTEM ELI	EMENTS		SUBTOTAL DIRECT COST	ECC COST	DIRECT COST / GSF
	Foundations							
-	Basement Cons							
	Superstructure Exterior Closus							
-	Roofing	.e						
	Interior Constru	uction						
C20	Stairs							
-	Interior Finishe							
	Conveyance Sy	rstems						
	Plumbing HVAC							
-	Fire Protection							
	Electrical							
	Equipment							
E20	Furnishings					b(5)	b(5)	b(5)
	Special Constru							
	Selective Build							
	Sitework - Buil	lding Related 1-Building Related						
A G20	Shework	-Bunding Items	Sub Tota			b(5)	b(5)	b(5)
В					Α			
C			Subtota1	A +	В	b(5)		b(5)
D		General Conditions			C			
E			21	C · D	C			
F		D % D1	Subtotal	C + D	+ E	b(5)		b(5)
G			s and Insurance					
н		stimated Constructi		F +	G	b(5)		b(5)
I		Escalation to Cons			Н			
	Estimated	Cost of Construc	tion at Award					
J		ECCA		G+:	H	b(5)		b(5)
K + L		ntractor Construction of Included Carried			J			
M			Subtotal	J + K	+ L	b(5)		b(5)
N	Optional Allow	vance for Art-In-Ar	chitecture		M	\$1,190,000		\$1,190,000
0	_	vance for Relocation			M	\$1,700,000		\$1,700,000
D	Estimated	Construction Cos	t	25 : 25		b/5)		b/F)
P S	EDRC (Estima	ECC ated Design & Revi	iew Cost)	M + N	+ O	b(5)		b(5)
W		ited Management &		st)	P			
A1						1/5		
A2		ETPC Line 2A		0+8+7	W + A1	b(5)		b(5)
							Escalation Rate Used:	
	Current Date:			Basis Date	of Estimate:		Const. Mid-Point Date:	

GS△	ESTIMATI	ED TOTAL	PROJECT C	COST		
	PROJECT TITLE:	John A Vo	lpe National I	Fransapoi	rtation Systems Cente	
	PROJECT LOCATION:			-	·	
	Item Description	Basis	Quantity	UOM		Totals
FCC	(Estimated Construction Cost)	Dusis	Quantity	00111		Tomis
A	Sub-Total UNIFORMAT System Elements				Sum All Elements	b(5)
В	Sub-Total ONE-ORIVIAT System Elements	A	l	%	+	D(J)
С		A+B		76	Sub - Total	b(5)
D	General Conditions/Requirements			%	+	J ()
E		С		%	+	
F		C+D+E			Sub - Total	b(5)
G	Profit Bonds and Insurance			%	+	
Н		F+G			Sub - Total	b(5)
I	Escalation:Current Date To Escal Date - See Summary	Н			+	
	Total Esclation					
	ECCA (Estimated Construction Cost At Award. Assumes Escalation to Construction					I-/F)
J	Mid-Point) Mid-Point)	H+I			ECCA	b(5)
K	Reservations [Note: Reservations are not used unless separate procurer	nent of GFE mate	erials]			
		J		%		
		1		%		
		1		%		
		1		%	+	
	Reservation Subtotal	1			Sub-Total	
L	General Contractor Construction Contingency Not Included Carried in Pricing form	1		%	+	
M	ECC ' - (Excluding Art-In-Architecture Allowance) Subtotal	J+K+L			Sub-Total	b(5)
N	Optional Allowance for Art-In-Architecture	M	\$1,190,000	%	Y	\$1,190,000
0	Optional Allowance for Relocation Cost	M	\$1,700,000	%	Y	\$1,700,000
P	ECC (Estimated Construction Cost)	M + N + O			ECC	b(5)
Q	A-E Services - Design Phase	P				
R	CM Services - Design Phase	P				
S	Commissioning Services Costs – Design Phase	P				
T	EDRC (Estimated Design & Review Cost)				EDRC	
U	A-E Services - Construction Phase	P				
V	CM Services - Construction Phase	P				
W	Commissioning Services Costs – Construction Phase	P				
Х	EMIC (Estimated Management & Inspection Cost)				EMIC	
Y				\$		
Z A1				\$	+	
A1 A2	ESC (Estimated Site & Other Cost)			\$	+ ESC	
AZ	ESC (Estimated Site & Other Cust)				ESC	
	I					
A3	ETPC (Estimated Total Project Cost)	(P+T+X+A2)	Date:		ETPC	b(5)

A10		Foundations	To add additional	row(s) select entir	e row and press CTRI	L+n	
		Design Criteria	Soil Capacity (KSF)	Bay Size	Total No. Floors	Seismic Risk	
		General Description:					
WI Code	UN FORMAT Code	Item Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
		Do N	lot Add Rows Belo	w This Line Total	A10		
400		Basement Construction	TIIIIIII				
A20		Design Criteria	Water Level	Floors Below Grade	re row and press CTRI	<u>_+11</u>	
		General Description:					
	_			1			
WI Code	UN FORMAT Code	Item Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
	1						
	<u> </u>						
		Do N	lot Add Rows Belo	w This Line Total	A20		

B10		Superstructure		row(s) select entire		RL+n	
		Design Criteria	High Ceiling/Wide-Bay SF	Floor Load Rating	Floor Height	Atrium SF	
		General Description:					
WI	UN FORMAT	Item Description	Quantity	Unit	Unit Cost	Totals	Totals
Code	Code			Measurement		(W/O Markup)	(ECCA)
	1			+			
					•		
						<u> </u>	
		Do	Not Add Rows Belo	w This Line			
				Total E	310		

20	Exterior Closure		To add additional row(s) select entire row and press CTRL+n					
		Design Criteria	% Fenestration	"U" Factor Wall	"U" Factor Glass	Degree Days		
		General Description:						
		·						
WI	UN FORMAT	Item Description	Quantity	Unit	Unit Cost	Totals	Totals	
Code	Code			Measurement		(W/O Markup)	(ECCA)	
			1					
			1					
			1					
		Do No	ot Add Rows Belov	v This Line				
				Total	B20			

B30		Roofing	To add additional		e row and press CTR		
		Design Criteria	"U" Factor	Skylight SF	"U" Factor Skylight	Conference Area	
		General Description:					
WI	UN FORMAT	tem Description	Quantity	Unit	Unit Cost	Totals	Totals
Code	Code			Measurement		(W/O Markup)	(ECCA)
			1				
			1				
			1				
			1				
	<u> </u>	D. N.	A Add Daws D. L.	This Line			
		Do No	ot Add Rows Belov		B00		
				Total	B30		

Design Criteria Partition Density Open Office SF Closed Office SF Conference Area	C10		Interior Construction	To add additional		e row and press CTR	L+n	
WI UN FORMAT Code Code Code Code Code Code Code Code			Design Criteria	Partition Density	Open Office SF	Closed Office SF	Conference Area	
WI UN FORMAT Code Code Code Code Code Code Code Code			0 10 11					
Code Code Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA)			General Description:					
Code Code Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA) Measurement (W/O Markup) (ECCA)	\//I	LIN FORMAT	Item Description	Quantity	Unit	Unit Cost	Totals	Totals
Do Not Add Rows Below This Line			item bescription	Qualitity		Offic Cost		
	Oouc	Out			Wedsarement		(W/O Markap)	(200/1)
		+						
		1						
	-			-				
			Do No	t Add Rows Relo	w This Line			
			BO NO	A A A A A A A A A A A A A A A A A A A		C10		

C20		Stairs	To add additional	row(s) select entire	e row and press CTR		
		Design Criteria	No. of Floors	Types of Risers	No. of Stairwells	No. of Flights	
		General Description:					
WI Code	UN FORMAT Code	tem Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
		Do N	ot Add Rows Belo	w This Line			
		20.1	5171 44 110115 2 515	Total	C20		
				Total	020		
C30		Interior Finishes	To add additiona			L+n	
C30		Design Criteria	To add additional Lobby Area		e row and press CTR ADP Area	L+n Lab/Clinic Area	
C30		Design Criteria General Description:	Lobby Area	row(s) select entire	e row and press CTR ADP Area		
C30 WI Code	UN FORMAT Code	Design Criteria	To add additional Lobby Area Quantity	row(s) select entire	e row and press CTR		Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description:	Lobby Area	row(s) select entire Court Spec Area Unit	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)
WI	UN FORMAT	Design Criteria General Description: Item Description	Lobby Area	row(s) select entire Court Spec Area Unit Measurement	e row and press CTR ADP Area	Lab/Clinic Area Totals	Totals (ECCA)

D10		Conveyance Systems	To add additional	row(s) select entire	e row and press CTF	RL+n	
		Design Criteria	Building Height	No. Stops	Escalator Use	No. Special Elev.	
		General Description:					
WI Code	UN FORMAT Code	tem Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
		Do	Not Add Rows Belov				
				Total	D10		
D20		Plumbing	To add additional	row(s) select entire	e row and press CTF	L+n	
		Design Criteria	No. Floors	No. Occupants	No. Visitors		
		General Description:					
WI							
Code	UN FORMAT Code	Item Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code	Item Description	Quantity		Unit Cost	Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code		Quantity Not Add Rows Belov	Measurement Withis Line		Totals (W/O Markup)	Totals (ECCA)
Code	UN FORMAT Code			Measurement		Totals (W/O Markup)	Totals (ECCA)

D30		HVAC	To add additiona	row(s) select entir	e row and press CTR	L+n	
		Design Criteria	Max Tons - A/C	Max Heating Load	Ventilation Quantity	Minimum Load Tons	
		General Description:					
WI	UN FORMAT	tem Description	Quantity	Unit	Unit Cost	Totals	Totals
Code	Code			Measurement		(W/O Markup)	(ECCA)
	1						
				<u> </u>			
		Do	Not Add Rows Belo				
				Total	D30		

)	Fir	re Protection			row and press CTR		
		Design Criteria	Hazard Rating	Special Suppression SF	Sprinklered Area	Dry-Pipe Area	
	G	eneral Description:					
WI Code	UN FORMAT Code	Item Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
	,	Do N	lot Add Rows Belo	w This Line Total	D40		

D50		Electrical	To add additional	row(s) select entir	e row and press CTRI	_+n	
		Design Criteria	Primary Voltage	Lighting Watts/SF	Receptacle Watts/SF	Emergency KW	
		General Description:					
WI Code	UN FORMAT Code	tem Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
			Not Add Rows Below	<u> </u>			
E10		Equipment		Total	D50 re row and press CTRI	_+n	
		Design Criteria	No. Furnished Workstations	Hoist Capacity			
		General Description:					
WI Code	UN FORMAT Code	Item Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)
							, ,
		Dr	Not Add Rows Belov	w This Line			
			Troc Add Rows Delo	Total	E10		
I							

E20		Furnishings	To add additional row(s) select entire row and press CTRL+n							
		Design Criteria	Area Wdw Treatm		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
			rusa tran risaan							
		General Description:								
		·	-							
WI	UN FORMAT	Item Description	Quantity	Unit	Unit Cost	Totals	Totals			
Code	Code			Measurement		(W/O Markup)	(ECCA)			
A1		Optional Allowance for Furniture Procurement	1	ls	\$11,472,872.00	\$11,472,872	\$11,472,872			
A1		Optional Allowance for Furniture Install	1	ls	\$425,000.00	\$425,000	\$425,000			
		Optional Allowance for Audio Visual								
A1		Procurement and Install	1 1	ls	\$668,496.00	\$668,496	\$668,496			
		Optional Allowance for Cafeteria			- 1	. ,				
A1		Equipment,(Not built in), Procure and Install	1	ls	\$1,250,000.00	\$1,250,000	\$1,250,000			
		Optional Allowance for Fitness Center								
A1		Equipment Procure and Install	1	ls	\$100,000.00	\$100,000	\$100,000			
		Optional Allowance for Security			b(5)					
A1		Equipment,(Not built in), Procure and Install	1	ls						
A1					i					
A1										
A1										
A1										
A1										
A1										
A1										
A1										
A1										
A1										
A1										
A1										
		Do No	t Add Rows Belo	w This Line						
				Total	E20	b(5)	b(5)			
F10		Special Construction	To add additional	l row(s) select enti	re row and press CTR	L+n				
		Design Criteria		Parking Area	Available Utilities	Plaza Area				
		General Description:								
WI	UN FORMAT	tem Description	Quantity	Unit	Unit Cost	Totals	Totals			
Code	Code			Measurement		(W/O Markup)	(ECCA)			
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	1									
	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				
		Do No	t Add Rows Belo							
				Total	F10					

F20		Selective Building Demolition	To add additional	To add additional row(s) select entire row and press CTRL+n						
		Design Criteria	Demolition SF	Abatement SF	Available Utilities	New Utlilities				
		General Description:		•			-			
WI	UN FORMAT	Item Description	Quantity	Unit	Unit Cost	Totals	Totals			
Code	Code			Measurement		(W/O Markup)	(ECCA)			
	1	D.	Not Add Davis Dala	This Lies						
			Not Add Rows Belo		F20					
				Total	F2U					

G10	Sit	tework - Building Related	To add additional	To add additional row(s) select entire row and press CTRL+n							
		Design Criteria	Demolition CF	Parking Area	Available Utilities	Plaza Area					
	G	eneral Description:				4					
WI Code	UN FORMAT Code	tem Description	Quantity	Unit Measurement	Unit Cost	Totals (W/O Markup)	Totals (ECCA)				
	1										
	1										
	•	Do	Not Add Rows Belov			'					
				Total	G10						

G20	-	Sitework - Non-Building Related	To add additional		e row and press CTR	L+n	
		Design Criteria	Site Area	Highway Area	Available Utilities	New Utlilities	
		General Description:					
140	LULEODUAT	Harris Danasala Harri	0 11	11.5	11.70	T	T
WI	UN FORMAT	Item Description	Quantity	Unit	Unit Cost	Totals	Totals
Code	Code			Measurement		(W/O Markup)	(ECCA)
5							
	+						
		Do Not	Add Rows Belov	w This Line			
				Total	G20		

 $USER\ INSTRUCTIONS; User\ \textbf{MUST}\ input\ Wi\ Code\ (explained\ by\ value\ below).\ User\ \textbf{MUST}\ input\ the\ \underline{ttem\ Description},\ \underline{Quantity},\ and\ \underline{Unit\ Cost}\ in\ order\ for\ the\ Totals\ to\ be\ calculated.$

Inputting the WI Code allows the tool to automatically sum the Direct Costs, ECCA, and ECC by Work Item Code. If user needs to add additional rows, insert new row BELOW the first empty row in the section and ABOVE the last row in the section. For example, insert the row between 8 and 19, but not outside those two row numbers. This ensures the formula stays correct. IF YOU ADD A ROW BE AWARE THAT THE ROW ADDED WILL NOT HAVE THE FORMULA IN IT. MAKE SURE TO PUT YOUR CURSOR ON THE CORNER OF THE CELL ABOVE THE ADDED ROW UNTIL THE BLACK CROSS APPEARS, THEN CLICK AND DRAG

WI Code #	Work Item Code Explanations
*** Code #	Entry Lobby Upgrades/Restoration (Monumental): The entry lobby area is defined as all public areas connecting
1	primary entry into the building to the front door of areas assigned to tenants and the primary vertical circulation system.
	Include costs for all refinishing of existing stonework, terrazzo, and other wall or ceiling finishes.
2	Secondary Public Lobbies & Circulation (non-monumental): Secondary public lobbies and circulation is defined as the area between primary non-monumental vertical circulation systems and the assigned tenant areas.
3	Restroom Upgrades: Includes new fixtures, modifications to address ADA requirements, upgrades to floor, wall, and ceiling finishes. Provide number restrooms and the number of plumbing fixture units/restrooms being upgraded.
4	Demolition/Core Shell Prep: This cost element is to remove existing interior improvements and prepare areas to receive interior tenant-fit-out type space alternations. Pursuant to the PBS Pricing Policy, this cost is charged against the shell budget for major R&A projects unless the project was specifically requested by the tenant post-initial occupancy. It includes demolition and disposal of existing interior walls, ceilings and floor finishes.
5	Interior Build-Out/Completion - Building Core/Shell: This cost element is to include the build-out cost of all interior
	spaces shared by multiple tenants. Examples of these are shared Conference Rooms, Cafeteria, Auditoriums, etc.
A1, B1, C1,etc	Tenant Fit-out: Inputted by the Agency Letter cited in the TI Summary Report (No user action req)
A2, B2, C2, etc	Security/Blast: Inputted by the Agency Letter cited in the TI Security Report (No user action req)
8	Special Requirements [List large items separately]- Agency or site requirements such as Tunnels, antenna
	New Construction Additions - such as building in fills or small additions. This ites is generally benchmarked using the
9	CT, FB or Border cost benchmark tools, and costs loaded herein when the project is generally a R&A project.
	Building Structure - Includes all cost (Architectural, Structural, Mechanical, and Electrical) associated w/ bringing Bldg up
10	to current-day seismic, hurricane or other structural standards, apart from the blast, glass fragmentation and progressive collapse noted above.
11	Building Exterior - Includes all cost (Architectural, Structural, Mechanical, and Electrical) necessary for the execution of
	work associated w/ maintenance, repair and/or replacement or exterior closure system elements, including stonework,
	masonry, glazing, curtainwalls, storefgronts, ext. doors, etc.
	Roofing - Includes work associated repair, maintenance and/or replacement of roof system, and all ancillary subcomponents. Other systems costs that are incurred because of a roofing work item is executed will be included in the
12	cost of the roofing work item. An example could be the removal and reseting of roof drains.
13	Conveying System - Includes the cost for repair and replacement of all public conveying system. Includes all architectural,
	mechanical and electrical costs incurred because of the execution of conveying system work item.
	Plumbing - Includes all costs associated with the Domestic Water, Sanitary Waste and all roof drainage not associated
14	with a roof replacement work item. Also includes plumbing fixtures not associated w/ restroom renovation, lobby renovation, or circulation space renovation. Also includes all other system cost associated with plumbing retrofit costs.
	Terrovation, or circulation space renovation. Also includes all other system cost associated with plumbing retroit costs.
	HVAC - Includes major items such as chiller, cooling tower, and boiler repair, replacement, or new installation. Includes air
15	distribution system repair and/or replacement, including main AHU's, ductwork trunk and secondary lines to branch lines
	feeding supply and return diffusers.
40	Electrical - Includes major items such as switch gear, transformers, meters, cable, distribution panels, bus duct,
16	panelboards, conduit, fittings, etc., to support all electrical systems. The replacement of the lighting system will be included
	in either the "Core-Shell" work item, or the tenant fit-out work item, whichever is appropriate in keeping with the limits of the
17	Life Safety - Includes major components to the central fire alarm system, fire protection system, egress components, etc. Note: Fire alarm wiring from building core to tenant space and then within tenant space; pull stations; strobes;
17	annunciators; and, exit signage within the demised premises shall be considered a part of the TI costs.
18	Hazardous Abatement
19	Grounds and Approaches

^{**}FOR ADDITIONAL INFORMATION ABOUT WI CODES SEE "INSTUCTIONS - MUST READ!!!"**

GSA OFFICE OF DESIGN AND CONSTRUCTION

UNIFORMAT II WBS COST ELEMENT ORGANIZATION

Jnf L1	U	nf L2	Un	of L3	Unf L4		E UOM	M UOM	Quantity Definition	WBS Ref No
SUB	STRU	CTURE	'				SF	M2	Footprint area at grade	
		all work below			tion (usually slab-on-grade) and the enclosing horiz	ontal and vertical elemen	ts required to form a	basement,		
genier with		FOUNDA		d backini						01
		Foundations i foundation ex Foundations i	includes the scavation, b include pile	ackfill, and co foundations, c	adard Foundations: wall and column foundations; for ppaction; footings and bases; perimeter insulation; aissons, underpinning, dewatering, raft foundations on grade, inclined slab on grade, trenches, pits and	perimeter drainage; anch , and pressure injected gr	or plates; and dewat outing Slab on grad	ering Special		
			A1010	STANDAR	D FOUNDATIONS		SF	M2	Footprint area at grade	011
					otings, spread footings, grade beams, foundation w	alls, pile caps, and colum	ın piers		, ,	
					OUNDATIONS	· ·	SF	M2	Footprint area at grade	012
				All work asso	ciated with special foundations including piles, caise	sons, and any other speci	al foundation situation	on		
			A1030	SLAB ON G	RADE		SF	M2	Footprint area at grade	021
				A slab poured	on earth, whether on undisturbed or fill soil					
	A20	BASEMENT	r consti	RUCTION			CY	М3	Volume of excavation	
		Work Include	es basement	excavation, as	d basement walls					
			A2010	BASEMENT	EXCAVATION		CY	М3	Area of basement plan measured to outside of enclosing wall and average depth of finished grade to underside of slab on grade	022
				Excavation we	ork associated with constructing a basement					
			A2020	BASEMENT	WALLS		SF	M2	Area of wall	023
					udes basement perimeter walls that are below grade for pits and other pits	and below the ground fl	oor level of the build	ling; this also		
SHEL	L						SF	M2	Sum area of supported floors and roof structure	
(slabs,		c) and vertical			supports within basements and above grade Note the plumns and interior structural walls) Exterior load					
	B10	SUPERSTR	UCTURE				SF	M2	Sum area of supported floors and roof structure	03
		Work include	es floor cons	struction and re	oof construction					
			B1010	FLOOR CO	STRUCTION		SF	M2	Area of supported floors	031
				This construct	ion can be wood, concrete, CMU, steel frame, etc					
			B1020	ROOF CON	STRUCTION		SF	M2	Area of supported roof	032
					uction is similar to floor construction ex-		o the framework	supporting		
	B20	EXTERIOR			d roof decks (See also System B30 Roo	····s /	SF	M2	Area of exterior walls	04
		This system of windows, and System B10, only the appli	consists of t l exterior do Superstruct ied exterior	he exterior fac oors This syste ture Structura finishes (i e , p	ng of the facility, which includes all vertical and he m excludes roofing (See System B30, Roof). Load frame elements at exterior such as columns, beam aint, stucco, etc.) being included here. Finishes to t stem C30, Interior Finishes	bearing exterior walls w s, spandrels, etc , would b	such as exterior wal ill be included here, a be included in Super	ls, exterior and not in structure with	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
			B2010	EXTERIOR	WALLS		SF	M2	Area of exterior walls	0411
					associated with the following construction: exterior is and screens, sun control devices (exterior), balcogs					
		B2020 EXTERIOR WINDOWS					SF	M2	Area of windows	042
				All windows l	ocated in exterior walls or exterior skin					

		1 1	B2030	EXTERIOR DOORS	EA	EA	Number of doors	042
\vdash				All doors located in exterior walls or exterior skin				0.12
	B30	ROOFING			SF	M2	Gross area of roof	0
		This System i		l waterproof roof coverings and insulation, expansion joints, together with skylights, hatcherings, the system includes all waterproof membranes and traffic toppings over below grade-	s, ventilators, and all	required trim		
			B3010	ROOF COVERINGS	SF	M2	Gross area of roof	050
				This System includes all waterproof roof coverings and insulation, expansion joints, toget ventilators, and all required trim. In addition to roof coverings, the system includes all wat toppings over below grade enclosed areas, balconies, and the like				
INTER	IORS				SF	M2	Gross floor area	(
Constru		nich takes place	inside the	exterior wall or exterior skin. The system does not include interior structural walls, which	are included in Syste	m B10,		
Ė	C10	INTERIOR	CONSTR	RUCTION	SF	M2	Gross floor area	
		This assembly	y includes	partitions, interior doors, and fittings		l		
			C1010	PARTITIONS	SF	M2	Area of partitions	0
				Includes all interior partitions, excluding interior structural walls located in System B10, \$2.00 and \$1.00 are considered in System B10, \$2.00 are considered in System B10,	Superstructure	ı		
			C1020	INTERIOR DOORS	LEF	LEF	Number of leaves	06160
				Includes all interior doors				
			C1030	FITTINGS	SF	M2	Gross floor area	(
				Includes most commonly used specialty items		ı		
	C20	STAIRS			FLT	FLT	Number of flights	03
		Work include	s interior s	stair construction				
			C2010	STAIR CONSTRUCTION	FLT	FLT	Number of flights	03
				All work items associated with interior and exterior stairs. A flight of stairs is considered landings required to travel from one floor to the next	to be all the treads an	d risers with		
			C2020	STAIR FINISHES	SF	M2	Area of finished landings, treads, risers	0616, 0622, 062
				Includes finishes to treads, risers, landings, and soffits, and finishes to handrails and balus	trades			
	C30	INTERIOR	FINISHE	S	SF	M2	Area of finishing	
		Includes wall	finishes, f	loor finishes, and ceiling finishes				
			C3010	WALL FINISHES	SF	M2	Area of finished walls	062
				Finishes which are applied to interior wall surfaces		!		
			C3020	FLOOR FINISHES	SF	M2	Area of finished floors	062
				All flooring and floor finishes applied to interior floors				
			C3030	CEILING FINISHES	SF	M2	Area of ceilings	062
				All ceilings and ceiling finishes applied to interiors		•		
SERVI	CES				EA	EA		
	s all met		ing, Plum	bing, HVAC, Fire Protection, and Electrical for the Building Any Site-Related Plumbing,	HVAC or Electrical i	s placed in		
-	D10	CONVEYIN	G		STY	STY	Number of stories	
				evators, escalators, pneumatic tube systems, conveyors, chutes, etc Foundations for these s	ļ			
		-	D1010	ELEVATORS AND LIFTS	STP	STP	Number of stops	070
				Includes passenger elevators and freight elevators				
			D1020	ESCALATORS AND MOVING WALKS	LF	M	Length of stairs or walks	070
				The length of stair or walk is calculated by the length of moving stair or walk plus lift (ver	tical floor to floor)	!		
			D1090	OTHER CONVEYING SYSTEMS	EA	EA		
				Other conveying systems includes dumbwaiters, pneumatic tube systems, overhead cranes	, conveyor belts, chui	tes, and lifts		
	D20	PLUMBING			EA	EA	Number of fixtures	08
		The plumbing	system's	primary function is the transfer of liquids and gases This system includes all water supply	and waste items with	in the building		
1								

			All terminal devices on the domestic plumbing system which have water supplied to the fix and special equipment are not counted as a fixture	ture Hot water heate	ers, hose bibbs,		
	D	2020	DOMESTIC WATER DISTRIBUTION	EA	EA	Number of fixtures	081
		:	This system provides for human health and comfort The water supply number of fixtures attached Hot water heaters, hose bibbs, and special as a fixture				
	D	2030	SANITARY WASTE	EA	EA	Number of fixtures	08
		,	This system provides for human health and comfort Fixtures include all terminal devices water supply equipment and specialties), and also devices that transfer fluids into the sanit water supply Floor drains (not drain hubs) are included as a sanitary waste fixture				
	D	2040	RAIN WATER DRAINAGE	SF	M2	Area of roof	08
		1	Roof drainage system Gutter and downspouts are not included in this subsystem				
	D:	2090	OTHER PLUMBING SYSTEMS	EA	EA	Number of special fixtures, etc	08
			This subsystem includes all special plumbing systems which are not included in	D2010 through D20)40		
D30	HVAC			MBH	KW	Total MBH capacity	0
	This system incl system	udes all e	equipment, distribution systems, controls, and energy supply systems required by the heating	ng, ventilating, and ai	r conditioning		
	D.		ENERGY SUPPLY	МВН	KW	Total power of heating system	08
			The energy input to the facility (other than electrical) in the form of fuels or hot and cold v facility Energy received from wind or solar power is not included in this subsystem	vater distributed from	a central base		
	D		HEAT GENERATING SYSTEMS	МВН	KW	Total power of heating system	08
			This subsystem includes steam, hot water, furnace, and unit heater systems Fuels include otherwise noted	coal, oil, gas and elec	etric unless		
	D	3030	COOLING GENERATING SYSTEMS	TON	KW	Total power of cooling capacity	08
			Cooling generating equipment of the absorption, centrifugal, reciprocating, and direct expansion	nsion types			
	D:	3040	DISTRIBUTION SYSTEMS	MBH	KW	Power	08
			This includes systems that distribute heated and cooled air, ventilating and exhaust air, hot glycol heating	and chilled water, st	eam, and		
	D	3050	TERMINAL & PACKAGE UNITS	MBH	KW	Power	08
		,	This category includes self-contained heating and cooling units				
	D	3060	CONTROLS & INSTRUMENTATION	MBH	KW	Power	08
]	Includes devices such as thermostats, timers, sensors, control valves, etc., necessary to opportunity	erate the system as de	signed		
	D	3070	SYSTEMS TESTING & BALANCING	MBH	KW	Power	08
			This includes operation of all systems to determine capacity and adjustment of water flow systems, air flow of air handling units, supply and exhaust fans, and supply and return, an		ot water		
	D	3090	OTHER HVAC SYSTEMS AND EQUIPMENT	EA	EA	Number of special mechanical systems	(
			This subsystem includes special mechanical systems that are not normally included as part				
D40	FIRE PROTEC			SF	M2	Gross floor area	(
			dard and special fire protection systems, and fire alarm systems				
	D		FIRE ALARM & DETECTION SYSTEMS Assemblies include wire, conduit, conduit support or fastening systems, fire alarm devices switches, mass notification, all electrical connections and other associated items	SF , fire detection device	M2 s, safety	Gross floor area	0931
	l n		FIRE SUPPRESSION WATER SUPPLY AND EQUIPMENT	LF	М	Length of system	08
		1	Requirements for water supply design criteria and any items located upstream of the suppr backflow preventers, strainers, etc The water supply distribution system begins 5'-0' outs	ession systems such			
	D.		STANDPIPE SYSTEMS	EA	EA	Number of sprinkler heads	08
			This subsystem includes the complete standpipe system				
	D.		SPRINKLERS	EA	EA	Number of sprinkler heads	08
		-	This subsystem includes the water supply equipment and related piping from the equipmen			1	
	D.		FIRE PROTECTION SPECIALTIES	EA	EA	Number of extinguishers	08

	ļ	D4090	OTHER FIRE PROTECTION SYSTEMS	EA	EA	Each system	08
			This subsystem includes other fire protection systems				
D50	ELECTRIC	AL		AMP	AMP	Gross floor area	
	This system i	s defined b	by the electric current used or regarded as a source of power				
		D5010	ELECTRICAL SERVICE & DISTRIBUTION	AMP	AMP	Gross floor area	(
			This subsystem provides for all electrical devices that are required to deliver the main sou distribute this power to subpanels	rce of power to the fa	cility and to		
		D5020	LIGHTING & BRANCH WIRING	SF	M2	Floor area	092
			Lighting systems including light fixtures and devices, i e , switches, receptacles, and equip	ment connections			
		D5030	COMMUNICATIONS & SECURITY	SF	M2	Floor area	
			This subsystem includes provisions for communication devices and alarm protection syste	ems			
		D5090	OTHER ELECTRICAL SERVICES	SF	M2	Gross Floor area	
			Systems not described in System D5030				
QUIPMENT	Γ & FURNISH	IINGS		SF	M2	Gross Floor area	
			ssembly consist of the following: commercial, institutional, and vehicular The types of furn	nishings found here in	nclude artwork,		
E10	EQUIPMEN		gs etc	SF	M2	Gross Floor area	
EIU	1		winness and found in Suntain (1920 (Entire))	21.	M2	Gross Floor area	
	I ms system i		uipment not found in System C1030 (Fittings)	OF.	140	E	
		E1010	COMMERCIAL EQUIPMENT	SF	M2	Floor area	1
			This equipment is not likely to be used in every building type Subsystem C1030 includes every building type	those items likely to	be found in		
		E1020	INSTITUTIONAL EQUIPMENT	SF	M2	Floor area	
			Institutional equipment includes items that are normally found in hospitals, laboratories, a	uditoriums, and libra	ries		
		E1030	VEHICULAR EQUIPMENT	EA	EA	Pieces of equipment	
			Vehicular equipment includes for parking, loading docks, and warehouses				
		E1090	OTHER EQUIPMENT				
			The type of equipment found in his category include items for maintenance, food service, a	and waste handling			
E20	FURNISHIN	NGS		SF	M2	Floor area	
	The types of	furnishing	found here include artwork, window treatments, seating, furniture, rugs, etc				
		E2010	FIXED FURNISHINGS	SF	M2	Floor area	
			The types of furnishings found here include artwork, window treatments, and seating				
		E2020	MOVEABLE FURNISHINGS				
			The types of furnishings found here include moveable artwork, furniture, rugs, etc				
PECIAL CO	NSTRUCTIO	N & DEM	I IOLITION	SF	M2	Floor area	
otection; spec	cial security sys	tems; aqua	ed structures; pre-engineered structures; special purpose rooms; sound, vibration, and seisn tic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; liquid and systems Selective building demolition includes demolition of existing buildings, and site de	l gas storage tanks; re			
F10	SPECIAL C	ONSTRU	CCTION	SF	M2	Floor area	
	radiation prot	tection; spe	ludes air-supported structures; pre-engineered structures; special purpose rooms; sound, vil cial security systems; aquatic facilities; ice rinks, site constructed incinerators; kennels and instrumentation; and building automation systems				
		F1010	SPECIAL STRUCTURES	SF	M2	Floor area	
	1		Special structures includes air-supported structures, and pre-engineered structures	<u> </u>	1		
	1	F1020	INTEGRATED CONSTRUCTION	SF	M2	Floor area	
	1	2 1020	Integrated construction includes integrated assemblies and special purpose rooms	31	1112	1 ion area	
	1	F1030	SPECIAL CONSTRUCTION SYSTEMS	ÇE.	M2	Area of room	
-		F 1030	Special construction systems includes sound, vibration, and seismic construction;	SF	M2	Area of room	
			Special construction systems includes sound, vibration, and seismic construction; radiation protection; special security systems; and built-in place vaults				
		F1040	SPECIAL FACILITIES	SF	M2	Area of room	
	I		Special facilities includes aquatic facilities; ice rinks, site constructed incinerators; kennels	di 1 -ble	11: 11 1		

				CONTROL CONTROL CAND INCOME TO THE TWO				
			F1050	SPECIAL CONTROLS AND INSTRUMENTATION	XX	XX		
				Special controls and instrumentation includes recording instrumentation and building auto		I		
	F20			ING DEMOLITION	LS	LS		
		abatement	lding demo	lition includes demolition of existing buildings, site demolition, and hazardous components				
			F2010	BUILDING ELEMENTS DEMOLITION	LS	LS		
				Selective building demolition includes demolition of existing buildings, and site demolition				
			F2020	HAZARDOUS COMPONENTS ABATEMENT	LS	LS		
				Hazardous components abatement includes the removal or encapsulation of hazardous but	lding materials and c	omponents		
SITE	WORK				ACR	Hectare	T-t-1f -it-	
		les Building-Re	elated Sites	ork and Non-Building-Related Sitework Building-Related Sitework and Non-Building-Rel			Total area of site	
				/mechanical utilities, site electrical utilities	ated Silework both in	cidde site		
	G10	BUILDING	-RELATE	D SITEWORK				
		Building-Related to building co		ork includes site preparations, site improvements, site civil/mechanical utilities, site electrical	al utilities required for	r and specific		
			G1010	SITE PREPARATIONS	ACR	Hectare	Total area of site	12
				This system includes assemblies for miscellaneous sitework such as clearing and grubbing	, demolition and relo	cation, various		
		1		earthwork tasks, and other site preparation and cleanup requirements	1.0	1.3		
+		1	G1020	SITE IMPROVEMENTS	LS	LS		12:
				This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining		1		
			G1030	SITE CIVIL/MECHANICAL UTILITIES	EA	EA	Each utility	123
				Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distri- distribution, and other site mechanical utilities, such as industrial waste systems	bution, cooling distrit	oution, fuel		
			G1040	SITE ELECTRICAL UTILITIES	EA	EA	Systems total	1235
				This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection				
	G20	NON-BUILI	DING-RE	LATED SITEWORK				
	020	Т		titework includes site preparations, site improvements, site civil/mechanical utilities, site				
		electrical util		ed for and specific to other than building construction				
		electrical util			ACR	Hectare	Total area of site	12
		electrical utili	ities requir	ed for and specific to other than building construction		l	Total area of site	12
		electrical utili	ities requir	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing		l	Total area of site	
		electrical utili	G2010	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements	demolition and relocated the LS	cation, various	Total area of site	
		electrical util:	G2010 G2020	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS	demolition and relocated the LS	cation, various	Total area of site Each utility	12
		electrical util	G2010 G2020	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining	LS walls, and landscapir	LS BE EA		12
		electrical util	G2010 G2020 G2030	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distri	LS walls, and landscapir	LS BE EA		12
		electrical util	G2010 G2020 G2030	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems,	LS walls, and landscapir EA bution, cooling distril EA head and undergroun	LS BEA Duttion, fuel EA d distribution	Each utility	12
	G30		G2010 G2020 G2030 G2040	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over	LS walls, and landscapir EA bution, cooling distril EA head and undergroun	LS BEA Duttion, fuel EA d distribution	Each utility	12.
	G30	OTHER S	G2010 G2020 G2030 G2040	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA bution, fuel EA d distribution larm systems,	Each utility	12
	G30	OTHER S	G2010 G2020 G2030 G2040	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA bution, fuel EA d distribution larm systems,	Each utility	12 12 123.
	G30	OTHER S	G2010 G2020 G2030 G2040 SITE COnstruction	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA distribution larm systems, LS	Each utility	12: 12: 123:
	G30	OTHER S	G2010 G2010 G2020 G2030 G2040 SITE CO	SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA distribution larm systems, LS	Each utility	123 123 123 123
	G30	OTHER S	G2010 G2020 G2030 G2040 SITE COnstruction	SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS This assembly includes service and pedestrian tunnels OTHER SITE CONSTRUCTION	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA d distribution larm systems, LS XX	Each utility	123 123 123 123
/ IND		OTHER S Other site con	G2010 G2010 G2020 G2030 G2040 SITE CO	SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS This assembly includes service and pedestrian tunnels	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA d distribution larm systems, LS XX	Each utility	123 123 123 123
Z IND	DIRECT	OTHER S Other site con	G2010 G2010 G2020 G2030 G2040 SITE CO	SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS This assembly includes service and pedestrian tunnels OTHER SITE CONSTRUCTION Other site construction includes bridges, railroad spurs and snow melting systems	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA d distribution larm systems, LS XX	Each utility	123: 123: 123: 123:
z Ind		OTHER S Other site con	G2010 G2010 G2020 G2030 G2040 SITE COnstruction and G3010 G3020 CONTI	SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS This assembly includes service and pedestrian tunnels OTHER SITE CONSTRUCTION Other site construction includes bridges, railroad spurs and snow melting systems	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA d distribution larm systems, LS XX	Each utility Systems total	123 123 123 123 123
z Ind	DIRECT	OTHER S Other site con	G2010 G2010 G2010 G2020 G2030 G2040 SITE COnstruction : G3010 G3010 CONTI	ed for and specific to other than building construction SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS This assembly includes service and pedestrian tunnels OTHER SITE CONSTRUCTION Other site construction includes bridges, railroad spurs and snow melting systems NGENCY FEASIBILITY STUDY SUBMISSION	LS walls, and landscapir EA bution, cooling distril EA chead and undergroun communication and a LS XX XX	Eation, various LS Bg EA Dution, fuel EA d distribution larm systems, LS XX XX	Each utility	123 123 123 123 123
Z IND	DIRECT	OTHER S Other site con	G2010 G2010 G2020 G2030 G2040 SITE COnstruction and G3010 G3020 CONTI	SITE PREPARATIONS This system includes assemblies for miscellaneous sitework such as clearing and grubbing earthwork tasks, and other site preparation and cleanup requirements SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining SITE CIVIL/MECHANICAL UTILITIES Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distridistribution, and other site mechanical utilities, such as industrial waste systems SITE ELECTRICAL UTILITIES This system includes exterior electrical systems and equipment including substations, over systems, metering systems and equipment, exterior lighting, lightning protection systems, and cathodic protection DNSTRUCTION Includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems SERVICE AND PEDESTRIAN TUNNELS This assembly includes service and pedestrian tunnels OTHER SITE CONSTRUCTION Other site construction includes bridges, railroad spurs and snow melting systems	LS walls, and landscapir EA bution, cooling distril EA head and undergroun communication and a	EA Dution, fuel EA d distribution larm systems, LS XX	Each utility Systems total	123 123 1235 1236 1236

			Z1040	DESIGN	DEVELO	PMENT PHAS	E SUBMISSIO	N	%%%	%%%		
			Z1050	65% CD I	PHASE SU	UBMISSION			%%%	%%%		
			Z1060	90% CD 1	PHASE SU	UBMISSION			%%%	%%%		
			Z1070	100% CD	PHASE S	SUBMISSION			%%%	%%%	0% * Direct Cost	
Z	220	GENERA	L CON	DITIONS	and PROI	FIT						
			Z2010	NEW CO	NSTRUC	TION - SINGL	E PHASE		%%%	%%%	15% * CECA	
			Z2020	REPAIR .	AND ALT	TERATION - SI	INGLE PHASE		%%%	%%%	20% * CECA	
			Z2030	NEW CO	NSTRUC	TION - MULTI	I-PHASED		%%%	%%%	Case by Case basis	
			Z2040	REPAIR .	AND ALT	TERATION - M	IULTI-PHASEI)	%%%	%%%	Case by Case basis	
Z.	230	ESCALA'	TION T	O CONST	RUCTIO	N MID-POINT			%%%	%%%	%% PER ANNUM	
Z	240	CONTIN	GENCY	AND RES	SERVATI	ON						
			Z4010	CONSTR	UCTION	CONTINGEN	CY					
			Z4020	RESERV	ATION				\$\$ OR %%	\$\$ OR %%	Project Specific	
Z	250	ART-IN-	ARCHIT	TECTURE			%%%	%%%	0 5% * ECC'			